# DATA Series

## Cost effective ADSL2+ Gateway

P.DG A4001N rev.B

Wi Fi CERTIFIED

## HIGHLIGHTS

4 PC or set-top box connections (Eth. ports)

Printer/file sharing or HSPA data backup via USB

Prioritization of data flow (IP QoS)

Remote management through TR-069

Wireless Protection System

**ADB Connected Thinking**

# DATA Series

# Cost effective ADSL2+ Gateway

## P.DG A4001N rev.B

The P.DG A4001N offers a complete broadband access and home connectivity solution to your subscribers, with a high speed Wi-Fi connection – up to 300Mbps – and 4 Ethernet 10/100 Base-T/TX ports.

File and printer sharing is easy, users can simply plug a USB hard disk and share multimedia content across their home network. With ADB's optional 3G USB dongle you can offer your subscribers an "always on" internet connection through the HSPA data back-up capability.

We can customize the embedded software to fit your specific requirements, including using third-party 3G dongles.

You will reduce your customer support costs thanks to the TR-069 remote management protocol, while our optional 'Smart Setup' software wizard will let your subscribers self-install their broadband access in less than 10 minutes.

***For VDSL connection, see P.DG AV4001N.***
***For rich feature set, see P.DG A4001N rev.A***

# TECHNICAL SPECIFICATIONS

### WAN Interface
1 ADSL Line port (RJ-11plug) supporting the following standards:
- ADSL (G.992.1, G992.2, T1.413, G994.1, G997.1)
- ADSL2 (G.992.3)
- ADSL2+ (G992.5)

Annex A/Annex B are available in different product versions

### LAN Interface
- 4x Ethernet ports 10/100BASE-T/TX (RJ-45 plug), compliant to IEEE 802.3, with auto MDIX and auto-negotiation.
- Ports can be configured in order to be dedicated to video traffic to/from a set-top box

### Expansion Ports
- 1x USB Host v 2.0

### Wireless Interface
- Wi-Fi connection up to 300Mbps

Wi-Fi access point solution compliant with:
- IEEE 802.11b/g/n (2.4GHz), 2x2 spatial multiplexing
- WPA/WPA2 (IEEE 802.11i)
- WMM (IEEE 802.11e)
- 2x internal antennas
- WPS Push Button

### DSL (ATM) Features
- AAL5 (ITU-T I.363.5)
- UBR, VBR-nrt, VBR-rt, CBR traffic classes
- Multiple VC/PPP connections
- Multi-protocol encapsulation over AAL5, RFCs 2684
- Up to 8 PVC
- Pre-emptive SAR
- Multiple physical queues (up to 8) per traffic class, with priority-based scheduling support*
- OAM (ITU-T I.610):
  - F4, F5
  - Loop-back
- Encapsulation modes in ATM stacks: LLC SNAP and VC-Mux

### WAN Protocol Encapsulation
- Bridged/Routed Ethernet over ATM (RFC 2684 / RFC 1483)
- PPP over Ethernet (RFC 2516)
- PPP over ATM (RFC 2364)
- IP over ATM (RFC 1577)
- Multiple PPPoE connections on a single VC

### Routing / Bridging
- IPv4 and IPv6
- RIP v1/v2 and static routing
- NAT/NAPT, RFCs 3022, Static NAT/NAPT
- DHCP Server/Client/Relay
- DNS relay
- VPN pass-through
- Application Level Gateway (ALGs) modules
- Spanning tree protocol
- IP Multicasting – IGMP v1, v2, v3
- Transparent Bridging (IEEE 802.1d)

### QoS
- IP QoS
- Traffic shaping (ATM layer)
- Priority-based scheduling (up to 8* queues, max 4 per PVC)
- 802.1 P/Q prioritisation
- Diffserv (RFC2474, RFC2475) marking and queuing according to connection type, network interface, MAC, IP, hostname
- Port based QoS
- DSCP/TOS remarking

### Security
- Programmable firewall
- Stateful Packet Inspection (SPI) Firewall
- IP protocol filtering
- Access Control
- Parental Control

### Management
- Broadband Forum TR-069 CPE Management Protocol:
- Auto-configuration and dynamic service provisioning
- Software/firmware image management
- Status and performance monitoring
- FTP/TFTP client for remote firmware upgrade
- Diagnostics and LOGs
- Telnet with CLI
- WEB server with Admin/User configuration pages
- Smart Setup software (*)

### VLAN
- Supports multiple VLAN ID per port
- Configurable layer-two switching

### Services
- Samba file server
- Printer sharing

### Power Adapter
- INPUT: 100-240Vac 50/60Hz
- OUTPUT: 12Vdc, 1A

### Buttons
- 1x Power Button
- 1x Reset Button
- 1x WLAN ON/OFF

### LEDs
- Power
- LAN1-LAN4
- WLAN
- WPS
- USB
- DSL
- Internet

### Environmental Specifications
Temperature:
- Operating: 0 to 40 °C
- Non Operating: -20 to 70 °C

Relative Humidity:
- Operating: 10% to 90% non-condensing
- Non Operating: 5% to 95% non-condensing

### Agency Approvals and Certifications
- CE mark
- ITU-T K21*
- Wi-Fi certification (by Wi-Fi alliance)
- RoHS
- WEEE
- ErP

### Standard Package Content
- P.DG A4001N
- Power adapter
- Ethernet CAT-5 cable RJ-45 plug (Yellow)
- Phone cable RJ-11 plug (ADSL) (Grey)
- Installation CD
- Safety leaflet

### Physical Specifications
- Product dimension: 145 x 130 x 35 mm
- Box dimension: 165 x 250 x 65 mm
- Weight: 230g (box: 530g)

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* Optional on request

Features subject to change – not contractually valid unless specifically authorised by ADB Broadband
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